



Static Control Pomalux® (static control acetal)

Pomalux SD-A (Static-dissipative acetal copolymer) Non-carbon-filled, permanently static-dissipative material which is non-migratory and non-humidity dependent. With enhanced lubricity, Pomalux SD-A provides superior wear resistance and ease of machining. Its extremely low outgassing values and non-sloughing characteristics make it ideal for applications where particulate generation cannot be tolerated. Enhanced lubricity, chemically resistant, and dimensionally stable. Pomalux CN-F (Conductive Acetal Copolymer) Non-sloughing carbon-fiber-filled material which is extremely strong and stiff with excellent dimensional stability. Abrasion-resistant, highly chemicalresistant, with temperature resistance to 320° F.

Pomalux CN-SS (Conductive Acetal Copolymer) Stainless-steel-fiber-filled, non-sloughing, dimensionally stable material HDT @ 264 psi of 225° F. This material has relatively high chemical resistance, is extremely strong and stiff, and is an excellent choice for situations where carbonbased conductive fillers are not acceptable. Easily machined with carbide-tipped tooling to tight tolerances. The following physical property information is based on typical values of the resin.

Manufacturing Capabilities:

Rod: 1 /8" to 4" diameter

Sheet(CN-F & CN-SS): 1 /4" to 4" thick

Sheet(SD-A): .030" to 4" thick Film(SD-A only): .010" to .029" thick

Colors/Grades:

SD-A-Natural (beige) CN-F-Black CN-SS-Dark Gray

Advantages of Pomalux SD-A, CN-F and CN-SS:

- · Low outgassing
- · Consistent resistivity values

- Ease of machining
- · Good chemical resistance

Applications Include:

- · Disk drive assembly fixtures
- Semiconductor/electronic components
- Telecommunication hardware
- Automotive equipment

In addition to our standard capabilities. Westlake also gas the ability to process custom resins in various sizes and colors with some exceptions.

	Units	ASTM Test	Pomalux SD-A	Pomalux P	omalux CN-SS
Mechanical	Omis	1031	OD A	OIT I	011 00
Tensile strength @yield	psi	D638	6,600	11,900	8,600
Tensile elongation @break	%	D638	45.0	3.5	_
Flexural strength	psi	D790	7,000	14,300	13,000
Flexural modulus	psi	D790	210,000	1,225,000	400,000
Izod impact strength	po.	2.00	210,000	1,220,000	100,000
Notched	ft•lbs/in	D256	2.0	1.0	0.7
Un-Notched	ft•lbs/in	D256	no break	3.5	_
Hardness-Shore D		D2240	76	88	86
Thermal					
Heat deflection temperature					
@264 psi	°F	D648	141	320	225
@66 psi	°F	D648	267	_	_
Coefficient of thermal expansion	on in/in/°F	D696	6.5 x 10 ⁻⁵	_	4.9 x 10 ⁻⁵
Thermal conductivity (BTU•i	n)/(hr•ft 2 •°F))	2.10	_	_
Flammability rating-UL94	, ,		НВ	HB	_
Electrical					
Surface resistivity dry	ohm/sq	D257	10 ⁹ - 10 ¹¹	10 ² - 10 ⁶	10 ² - 10 ⁶
Volume resistivity dry	ohm/cm	D257	10 ⁹ - 10 ¹¹	10 ³ - 10 ⁷	10 ² - 10 ⁶
Static decay, 15% RH	seconds	MIL-B-81705-B	< 0.3	<0.1	_
Other					
Specific gravity		D792	1.33	1.46	1.5
Water absorption @24 hours	%	D570	2.50	0.22	_
CN-F= conductive carbon-fiber-filled material					

SD-A= static-dissipative non-carbon-allov-filled material CN-SS = conductive stainless-steel-fiber-filled material

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